

# SAFETY DATA SHEET

COLOROBE	BIA :	ITALIA	HTL000032					
S.P.A.								
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

# **SECTION 1: Identification of the substance/mixture and of the** company/undertaking

#### 1.1 Product identifier

**Product name** HTL--000032

**Product code** 000000000010057889

**Product description** Not available.

liquid **Product type** 

Other means of identification HTL--000032

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Third firing decoration in the glass/ceramics/porcelain sectorsThird

firing decoration in the glass/ceramics/porcelain sectors

#### 1.3 Details of the supplier of the safety data sheet

COLOROBBIA ITALIA S.P.A. Indirizzo via Pietramarina 53

Località e Stato 50053 Sovigliana - Vinci (FI)

Italia

tel. +39 0571 7091 fax +39 0571 709.850

e-mail address of person responsible for this SDS

1.4 Emergency telephone number

QHSE@colorobbia.it

#### National advisory body/Poison Center

Telephone number CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel.

+39 055 7947819

CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel.

+39 0382 24444

Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315 Skin Sens. 1, H317

STOT SE 3, H335 (Respiratory tract irritation)

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms

**!**>

Signal word : Warning

**Hazard statements** : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

#### **Precautionary statements**

General : P103 - Read carefully and follow all instructions.P102 - Keep out of

reach of children.P101 - If medical advice is needed, have product

container or label at hand.

**Prevention** : P280 - Wear protective gloves. P271 - Use only outdoors or in a

well-ventilated area. P261 - Avoid breathing vapor. P264 - Wash

thoroughly after handling.

**Response** : P304 - IF INHALED: P304 + P312 - Call a POISON CENTER or

doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 - IF ON SKIN: P302 + P352 - Wash with plenty of water. P333 - If skin irritation or rash occurs:

P333 + P313 - Get medical advice or attention.

Storage : P405 - Store locked up.P403 + P233 - Store in a well-ventilated

place. Keep container tightly closed.

**Disposal**: P501 - Dispose of contents and container in accordance with all

local, regional, national and international regulations.

**Hazardous ingredients**: formaldehyde, reaction products with butylphenol

cyclohexanol turpentine, oil bornan-2-one dodecane-1-thiol

linalool

N-(2-ethylhexyl)-1-[[3-methyl-4-[(3-methyl-4)]]

methylphenyl)azo]phenyl]azo]naphthalen-2-amine

formaldehyde

**Supplemental label elements** : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain

dangerous substances, mixtures

and articles

Not applicable.

**Special packaging requirements** 

Containers to be fitted with child-resistant fastenings

Not applicable.

**Tactile warning of danger** : Not applicable.

#### 2.3 Other hazards

Product meets the criteria: This mixture does not contain any substances that are assessed to be a PBT or a

for PBT or vPvB according to Regulation

(EC) No. 1907/2006, Annex XIII

Other hazards which do

not result in classification

vPvB.

: None known.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M- factors and ATEs	Туре
formaldehyde, reaction products with butylphenol	EC: 294-145-9 CAS: 91673-30-2 Index: 605-021-00-4	>= 25 - <= 50	Skin Sens. 1, H317	-	[1]
cyclohexanol	EC: 203-630-6 CAS: 108-93-0 Index: 603-009-00-3	>= 10 - <= 25	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 STOT SE 3, H335 (Respiratory tract irritation)	ATE [Oral] = 1.400 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
turpentine, oil	EC: 232-350-7 CAS: 8006-64-2 Index: 650-002-00-6	> 0 - < 1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1.100 mg/kg ATE [Inhalation (vapours)] = 13,7 mg/l	[1]

bornan-2-one	EC : 200-945-0 CAS : 76-22-2	> 0 - < 1	Flam. Sol. 2, H228 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Chronic 4, H413	-	[1]
dodecane-1-thiol	EC : 203-984-1 CAS : 112-55-0	> 0 - <= 0,3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 (Respiratory tract irritation)	-	[1]
linalool	EC: 201-134-4 CAS: 78-70-6 Index: 603-235-00-2	> 0 - <= 0,3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
N-(2-ethylhexyl)-1-[[3-methyl-4-[(3-methylphenyl)azo]phenyl]azo]naphthalen-2-amine	EC : 260-125-3 CAS : 56358-10-2	> 0 - <= 0,3	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
formaldehyde	EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	> 0 - < 0,1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335 (Respiratory tract irritation)	ATE [Oral] = 100 mg/kg ATE [Dermal] = 270 mg/kg ATE [Inhalation (gases)] = 700 ppm Skin Corr. 1B, H314: >= 25 % Skin Irrit. 2, H315: 5 - < 25 % Eye Dam. 1, H318: >= 25 % Eye Irrit. 2, H319: 5 - < 25 % Skin Sens. 1, H317: >= 0,2 % STOT SE 3, H335: >= 5 %	[1] [2]

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### **Type**

Inhalation

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

#### **4.1** Description of first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

Continue to rinse for at least 10 minutes. Get medical attention.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer

should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Wash out mouth with water. Remove dentures if any. If material has

been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

Protection of first-aiders

Skin contact

**Ingestion** 

Eye contact Adverse symptoms may include the following: pain or irritation,

watering, redness

Inhalation Adverse symptoms may include the following: respiratory tract

irritation, coughing

Adverse symptoms may include the following: irritation, redness Skin contact

**Ingestion** No specific data.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

No specific treatment. **Specific treatments** 

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or In a fire or if heated, a pressure increase will occur and the container mixture may burst.

**Hazardous combustion products** Decomposition products may include the following materials: carbon

Date of issue/Date of revision: 13.06.2023 Version: 4.0 Date of previous issue: 26.04.2023 dioxide, carbon monoxide Decomposition products may include the following materials: carbon dioxide, carbon monoxide

#### **5.3** Advice for firefighters

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

For non-emergency personnel

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2** Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 6.3 Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

**6.4** Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### **7.3** Specific end use(s)

Recommendations
Industrial sector specific
solutions

Not available.Not available.

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
formaldehyde	EU OEL (2019-07-10). Skin sensitizer.
	STEL 0,74 mg/m3 0,6 ppm
	TWA 0,5 mg/m3 0,62 ppm

#### **Biological exposure indices**

No exposure indices known.

# Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
cyclohexanol	DNEL	Long term Dermal	1,43 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0,716 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0,716 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	40,3 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	10 mg/m³	General population	Systemic
turpentine, oil	DNEL	Short term Dermal	1,6 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0,11 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	51,6 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	10,3 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	3,9 mg/m³	Workers	Local
	DNEL	Long term Dermal	3,17 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Short term Oral	0,59 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	0,12 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Dermal	9,51 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Inhalation	0,78 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	1,17 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0,018 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0,417 mg/kg bw/day	General population	Systemic
bornan-2-one	DNEL	Long term Inhalation	4,3478 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	17,6316 mg/m <sup>3</sup>	Workers	Systemic

	DNEL	Long term Dermal	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	10 mg/kg bw/day	Workers	Systemic
linalool	DNEL	Long term Dermal	3 mg/cm <sup>2</sup>	Workers	Local
formaldehyde	DNEL	Long term Inhalation	0,1 mg/m³	General population	Local
	DNEL	Long term Dermal	240 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	102 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	9 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	0,375 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	4,1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	3,2 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	0,75 mg/m <sup>3</sup>	Workers	Local

#### **PNECs**

No PNECs available.

#### **8.2** Exposure controls

**Appropriate engineering controls** 

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : It is

It is recommended to wear a hooded visor or protective visor combined with airtight goggles (ref. Standard EN 166).

### **Skin protection**

**Hand protection** 

: Protect hands with category III work gloves (ref. Standard EN 374). For the final choice of the material of the work gloves it is necessary to consider: compatibility, degradation, breakage time and permeation. In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. Gloves have a wear time that depends on the duration and method of use.

**Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks

involved and should be approved by a specialist before handling this product.

#### **Respiratory protection**

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. In case of exceeding the threshold value (e.g. TLV-TWA) of the substance or of one or more of the substances present in the product, it is recommended to wear a mask with type AX filter whose limit of use will be defined by the manufacturer (ref. . standard EN 14387). If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.), combined filters must be provided. The use of respiratory protection means is necessary in case the technical measures adopted are not sufficient to limit the exposure of the worker to the threshold values taken into consideration. The protection offered by the masks is however limited. In the event that the substance in question is odorless or its olfactory threshold is higher than the relative TLV-TWA and in the event of an emergency, wear an open-circuit compressed air breathing apparatus (ref. Standard EN 137) or a self-contained breathing apparatus. outdoor air (ref. EN 138 standard). For the correct choice of the respiratory protection device, refer to the EN 529 standard.

#### **Environmental exposure controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state
Color
Brown.

Odor
Aromatic.
Odor threshold
Melting point/freezing point
Initial boiling point and boiling

! liquid [liquid]
Brown.
Not available.
Not available.
Not available.
Not available.

range

Flammability : Not available.

**Lower and upper explosion limit** : **Lower:** Not available.

**Upper:** Not available.

Flash point : 68 °C (154 °F)

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

pН Product is non-polar/aprotic.

Viscosity **Dynamic**: Not available.

Kinematic: Not available.

Solubility in water insoluble

Partition coefficient: n-

octanol/water

Not applicable.

Vapor pressure

Relative density Not available. Vapor density Not applicable. **Explosive properties** Not available. **Oxidizing properties** Not available.

**Particle characteristics** 

Median particle size Not applicable.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity No specific test data related to reactivity available for this product or

its ingredients.

**10.2** Chemical stability The product is stable.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions

will not occur.

10.4 Conditions to avoid No specific data.

**10.5** Incompatible materials No specific data.

10.6 Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
cyclohexanol				
	LD50 Oral	Rat	1.400 mg/kg	-
turpentine, oil				
	LD50 Oral	Rat	3.956 mg/kg	-
	LC50 Inhalation	Rat	19,9 mg/l	1 h
	Vapor			
	LC50 Inhalation	Rat	13,7 mg/l	4 h
	Vapor			

linalool				
	LD50 Oral	Rat	2.790 mg/kg	-
	LD50 Dermal	Rabbit	5.610 mg/kg	-
	LD50 Dermal	Rat	5.610 mg/kg	-
formaldehyde				
	LD50 Oral	Rat	100 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-
	LC50 Inhalation	Rat	250 ppm	4 h
	Gas.			
	LC50 Inhalation	Rat	250 ppm	4 h
	Gas.			
	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Dermal	Rabbit	270 mg/kg	-

**Conclusion/Summary** : Not available.

#### **Acute toxicity estimates**

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
HTL000032	5610,7 mg/kg	N/A	N/A	44,1 mg/l	N/A
cyclohexanol	1400 mg/kg	N/A	N/A	11 mg/l	N/A
turpentine, oil	500 mg/kg	1100 mg/kg	N/A	13,7 mg/l	N/A
linalool	2790 mg/kg	5610 mg/kg	N/A	N/A	N/A
formaldehyde	100 mg/kg	270 mg/kg	250 ppm	N/A	N/A

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
cyclohexanol	Skin -	Rabbit	-	24 hrs	-
	Moderate				
	irritant				
	Skin - Mild	Rabbit	-	24 hrs	-
	irritant				
	Eyes -	Rabbit	-	24 hrs	-
	Moderate				
	irritant				
	Eyes - Mild	Rabbit	-	24 hrs	-
	irritant				
	Eyes -	Rabbit	-		-
	Moderate				
	irritant				
turpentine, oil	Skin - Severe	Rabbit	-		-
	irritant				
	Skin - Severe	Human	-		-
	irritant				
linalool	Eyes -	Rabbit	-	1 hrs	-
	Moderate				
	irritant				
	Skin - Mild	Man	-	48 hrs	-
	irritant				
	Skin - Mild	Rabbit	-	24 hrs	-

	irritant				
	Skin - Severe	Rabbit	-	24 hrs	-
	irritant				
	Eyes -	Rabbit	-		-
	Moderate				
	irritant				
	Skin -	Guinea pig	-	24 hrs	-
	Moderate				
	irritant				
	Skin - Mild	Human		72 hrs	-
	irritant				
formaldehyde	Eyes -	Rabbit	-		-
	Severe				
	irritant				
	Skin - Severe	Human	-		-
	irritant				
	Skin - Mild	Human	-	72 hrs	-
	irritant				
	Eyes - Mild	Human	-	0,1 hrs	-
	irritant				
	Skin - Severe	Rabbit	-	24 hrs	-
	irritant				
	Skin - Mild	Rabbit	-		-
	irritant				
	Skin -	Rabbit	-	24 hrs	-
	Moderate				
	irritant				
	Eyes -	Rabbit	-	24 hrs	-
	Severe				
	irritant	D 111			
	Eyes -	Rabbit	-		-
	Severe				
	irritant	D 111			
	Eyes -	Rabbit	-		-
	Severe				
	irritant	D .1.1.14			
	Skin - Severe	Rabbit	-		-
G 1 1 1G	irritant				

Conclusion/Summary

Skin: Not available.Eyes: Not available.Respiratory: Not available.

#### Sensitization

Conclusion/Summary

Skin: Not available.Respiratory: Not available.

Mutagenicity

**Conclusion/Summary** : Not available.

Carcinogenicity

**Conclusion/Summary** : Not available.

#### **Reproductive toxicity**

**Conclusion/Summary** : Not available.

**Teratogenicity** 

**Conclusion/Summary** : Not available.

#### **Specific target organ toxicity (single exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
cyclohexanol	Category 3	-	Respiratory tract irritation
dodecane-1-thiol	Category 3	-	Respiratory tract irritation
formaldehyde	Category 3	-	Respiratory tract irritation

#### **Specific target organ toxicity (repeated exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
bornan-2-one	Category 1	-	-

#### **Aspiration hazard**

Product/ingredient name	Result
turpentine, oil	ASPIRATION HAZARD - Category 1

Information on the likely routes

of exposure

Not available.

#### Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

**Inhalation** : May cause respiratory irritation.

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following: pain or irritation,

watering, redness

Inhalation : Adverse symptoms may include the following: respiratory tract

irritation, coughing

**Skin contact** : Adverse symptoms may include the following: irritation, redness

**Ingestion** : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

#### Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

#### Potential chronic health effects

**Conclusion/Summary** : Not available.

**General** : Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Reproductive toxicity: No known significant effects or critical hazards.

#### 11.2. Information on other hazards

**11.2.1 Endocrine disrupting properties** : Not available. **11.2.2 Other information** : Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
cyclohexanol			
	Acute LC50 704 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
linalool	·		
	Acute LC50 28,8 mg/l Fresh	Fish - Oncorhynchus mykiss	96 h
	water		
	Acute EC50 36,7 mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
formaldehyde			•
	Acute LC50 1,41 mg/l Fresh	Fish - Oncorhynchus mykiss	96 h
	water		
	Acute LC50 1,41 mg/l Fresh	Fish - Oncorhynchus mykiss	96 h
	water		
	Acute EC50 3,26 mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
	Acute LC50 11,41 mg/l Fresh	Crustaceans - Ceriodaphnia	48 h
	water	dubia	
	Acute EC50 3,26 mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
	Acute LC50 11,41 mg/l Fresh	Crustaceans - Ceriodaphnia	48 h
	water	dubia	
	Acute EC50 3,48 mg/l Fresh	Algae - Desmodesmus	72 h
	water	subspicatus	
	Acute EC50 3,48 mg/l Fresh	Algae - Desmodesmus	72 h
	water	subspicatus	
	Acute EC50 0,442 mg/l Marine	Algae - Ulva pertusa	96 h
	water		
	Acute EC50 0,442 mg/l Marine	Algae - Ulva pertusa	96 h
	water		
	Chronic NOEC 0,005 mg/l	Algae - Isochrysis galbana	96 h
	Marine water		
	Chronic NOEC 0,005 mg/l	Algae - Isochrysis galbana	96 h
	Marine water		
	Chronic NOEC 1,56 mg/l Fresh	Fish - Oreochromis niloticus	84 d
	water		
	Chronic NOEC 1,56 mg/l Fresh	Fish - Oreochromis niloticus	84 d
	water		

Chronic NOEC 3.000 mg/l Fresh water	Crustaceans - Astacus astacus	21 d
Chronic NOEC 3.000 mg/l Fresh water	Crustaceans - Astacus astacus	21 d

**Conclusion/Summary** : Not available.

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
cyclohexanol	1,21,25	-	low
bornan-2-one	2,38	-	low
dodecane-1-thiol	6,5	-	high
linalool	2,84	-	low
formaldehyde	0,35	-	lowlow

#### 12.4 Mobility in soil

Soil/water partition coefficient

(KOC)

Not available.

**Mobility** : Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Endocrine disrupting properties** : Not available.

**12.7 Other adverse effects** : No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

- : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- **Hazardous waste**: The classification of the product may meet the criteria for a hazardous waste.

#### **Packaging**

#### Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging		European waste catalogue (EWC)
	15 01 10*	packaging containing residues of or contaminated by hazardous substances

#### **Special precautions**

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	-	-	-
14.2 UN proper shipping name	Not regulated.	Not regulated.	Not regulated.
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5. Environmental hazards	No.	No.	No.

ADN

The product is only regulated as a dangerous good when transported in tank vessels.

IATA

The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7** Transport in bulk according to IMO instruments

Not available.

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

#### **Substances of very high concern**

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

#### **Other EU regulations**

**Industrial emissions (integrated** 

Not listed

pollution prevention

and control) - Air

**Industrial emissions (integrated** 

Not listed

pollution prevention and control) - Water

Ozone depleting substances (1005/2009/EU)

None of the components are listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

#### **Persistent Organic Pollutants**

None of the components are listed.

#### **Seveso Directive**

This product is not controlled under the Seveso Directive.

#### National regulations

#### **International regulations**

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

#### **Chemical Weapons Convention List Schedule I Chemicals**

None of the components are listed.

#### **Chemical Weapons Convention List Schedule II Chemicals**

None of the components are listed.

#### **Chemical Weapons Convention List Schedule III Chemicals**

None of the components are listed.

#### **Montreal Protocol**

None of the components are listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

#### **Annex A - Elimination - Production**

None of the components are listed.

#### **Annex A - Elimination - Use**

None of the components are listed.

#### **Annex B - Restriction - Production**

None of the components are listed.

#### **Annex B - Restriction - Use**

None of the components are listed.

#### **Annex C - Unintentional - Production**

None of the components are listed.

#### **Rotterdam Convention on Prior Informed Consent (PIC)**

#### Rotterdam Convention on Prior Informed Consent (PIC) - Industrial

None of the components are listed.

#### Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide

None of the components are listed.

#### Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide

None of the components are listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

#### **Heavy metals - Annex 1**

None of the components are listed.

#### POPs - Annex 1 - Production

None of the components are listed.

#### POPs - Annex 1 - Use

None of the components are listed.

#### POPs - Annex 2

None of the components are listed.

#### POPs - Annex 3

None of the components are listed.

#### **Inventory list**

Australia: Not determined.Canada: Not determined.China: Not determined.

Eurasian Economic Union

Japan

: Russian Federation inventory: Not determined.

Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand: Not determined.Philippines: Not determined.Republic of Korea: Not determined.Taiwan: Not determined.Thailand: Not determined.Turkey: Not determined.

**United States** : At least one component is inactive.

Viet Nam : Not determined.

**15.2** Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

### **SECTION 16: Other information**

Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation

[Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335 (Respiratory tract irritation)	Calculation method

#### Full text of abbreviated H statements

H226	Flammable liquid and vapor.
H228	Flammable solid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if
	inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

#### Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 4	AQUATIC HAZARD (LONG-TERM) - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 1B	CARCINOGENICITY - Category 1B
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Flam. Sol. 2	FLAMMABLE SOLIDS - Category 2
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Resp. Sens. 1	RESPIRATORY SENSITIZATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -
	Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
	Category 3

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